AIR FILTRATION IN HVAC SYSTEMS

GENERAL PRODUCT BROCHURE

www.mikroporamerica.com

mikropor

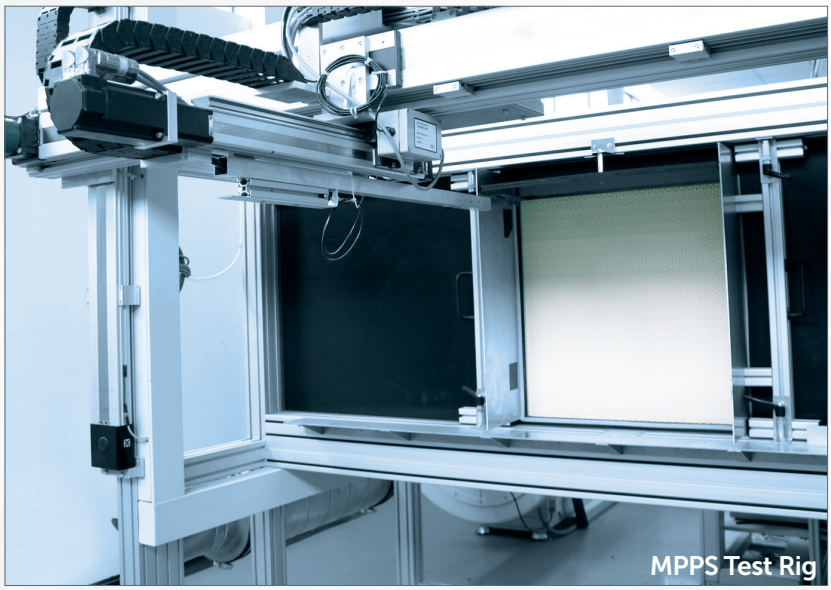
With more than 30 years of experience, Mikropor is the world's leading air filter manufacturer, steering the industry with its innovative products. Mikropor produces Atmospheric Air Filters and Compressed Air Systems for various industries, providing integrated and customer-specific filtration solutions for its customers. Catering customers all around the globe, Mikropor utilizes cutting edge technology in its production and performs varied test procedures to ensure that quality is never compromised and that customer expectations are exceeded.

As air pollution threatens the earth today, Mikropor produces tomorrow's technologies with its innovative approach and endeavors to build a safer world with its environment-conscious identity.

TEST STANDS

Quality Commitment ▶▶▶

Our dedication to quality is one of the founding principles of Mikropor. This commitment is underscored by our ISO 9001 certified Quality Management System, which challenges us daily to continually improve our processes and approaches in order to deliver the best possible results. Mikropor utilizes a complete ASHRAE 52.2 Test Rig system and MPPS Test Rig system to develop new products for market needs, improve performance of existing products and to supply filters in accordance with design specifications.


MPPS Test Rig


ASHRAE 52.2 Test Rig

The Flat Sheet Media Test Rig is a modular filter testing system for flat filter media and mini-filters.
This enables you to determine;

- Differential pressure curve
- Fractional efficiency
- Dust holding capacity ▶▶▶

Flat Sheet Media Test Rig

COARSE FILTERS CLASS MERV 8

ALL NON-STANDARD
FACE SIZES ARE AVAILABLE

MSKPN Series Class MERV 8
2"- 4"- 6" Deep Frame

- Extended surface with both plastic and galvanized frame
- Self supported media without metal wire mesh
- Equal pleat distance and fully incinerable

MGP Series Class MERV 8
2"- 4" Deep Frame

- Extended surface prefilters with moisture resistant cardboard frame
- Self supporting polyster media

MPR Series Class MERV 8-9

- 100% Rigid polyester media
- Molded plastic frame

HIGH TEMPERATURE FILTERS CLASS MERV 11-14

MPHT Series Class MERV 11-14
1.6"- 3" Deep Frame

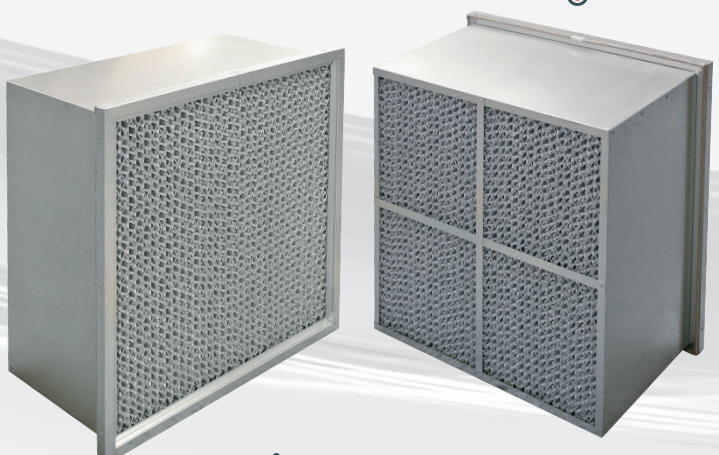
- Mini pleated high temperature filters for automotive industry
- Used in painting cabins and drying ovens
- Silicone-free

SILICONE FREE

MASHT Series Class MERV 11-14
12" Deep Frame

- Filters with corrugated aluminum separators
- Widely used in drying ovens
- Silicone-free

500°F



SILICONE FREE

FINE FILTERS CLASS MERV 9-16

MPF Series Class MERV 11-15

2"- 4"- 6" - 12" Deep Frame

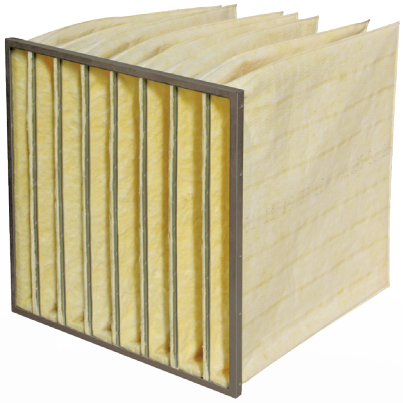
- Mini pleated filters with metal, plastic or cardboard frame for extreme durability
- High efficiency
- Low resistant, microglass fiber media

MPS Series Class MERV 9-14

- Pocket filters with high density
- Ultra fine synthetic media
- Ultrasonically welded to avoid leaks
- Plastic or galvanized frame

MPG Series Class MERV 9-14

- Pocket filters with microglass media
- Low pressure drop due to unique pocket design
- Galvanized frame



MV Series Class MERV 11-16

12" Deep Frame

- Very high dust holding capacity
- Low energy consumption
- UL Certificated

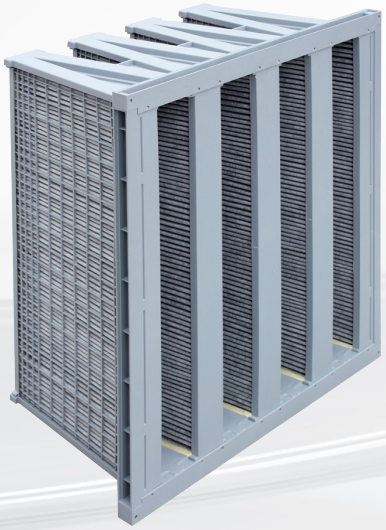
CLASSIFIED UL

AIR FILTER UNIT
AS TO FLAMMABILITY ONLY
R39025

MVX Series Class MERV 11-16

17" Deep Frame

- Max. air flow and service life
- Min. resistance

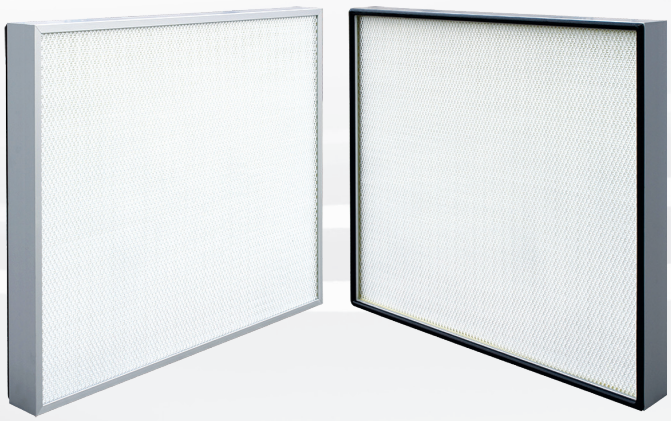


HEPA FILTERS Class 95% @ 0.3um - 99.9995% @ MPPS / 95% - 99.999% @ 0.3um

HFN Series 95% @ 0.3um - 99.9995% @ MPPS

3.07" Deep Frame

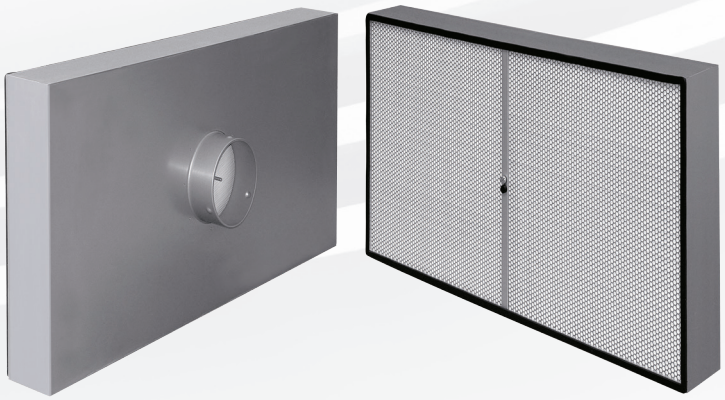
- Final filters in cleanrooms, operating rooms, laminar flow units etc.
- Half round, flat or U-profile gasket options
- Available in MDF aluminum frame



MHH Series 95% @ 0.3um - 99.9995% @ MPPS

4.9"- 5.9" Deep Frame

- Widely used in cleanrooms and laminar flow cabins
- Extruded anodised aluminum frame



HFH Series 95% - 99.999% @ 0.3um

11.5" Deep Frame

- High efficiency absolute filters for air in ventilation systems
- Longer service life
- Less energy consumption
- Frame and gasket variations available

MVH Series 95% - 99.999% @ 0.3um

11.5" Deep Frame

- Final filters with max. air flow capacity and media area
- Half round, flat or U-profile gasket options
- Available in galvanized steel or plastic frame
- UL Certificated

CLASSIFIED UL

AIR FILTER UNIT
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R39025

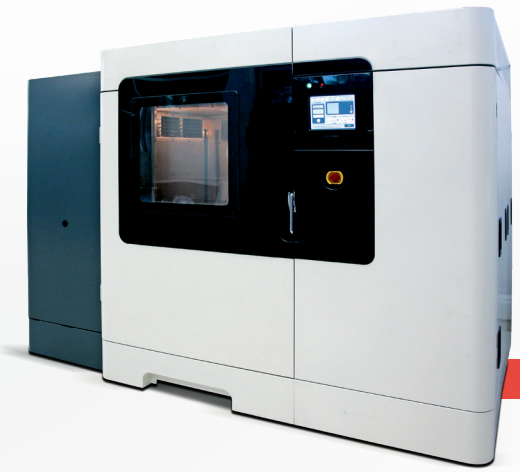
HIGH TECHNOLOGY

SEM/ Scanning Electron Microscopy

Scanning Electron Microscopy (SEM) is utilized in determining of surface characteristics of newly developed materials. On nano-coated surfaces, uniform and continuous filament formations, where no drop defects occur, are desired. By means of the SEM instrument, having 1.000.000x magnification, morphology of nanofibers can easily be examined. EDX is the technique utilized in order to define elemental composition on any sample or on a respective small area on a sample. EDX analysis in the electron microscope is performed by exposing the sample to a scanning electron beam. Thus, elemental composition of the sample can be determined.

3D/ Printing System

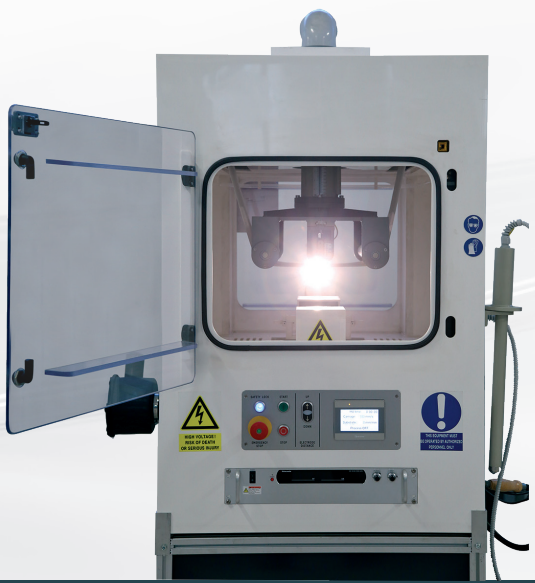
The 3D printer produces prototypes of designed products faster and with lower cost by utilizing layered production technology.



NANO/ Nano Coating System

Filter materials can be coated with fibers in nano scale through a nanofiber coating machine that utilizes the electrospinning method. Durable and highly efficient filter material can be further improved by performing nanofiber coating on the material.

It is expected for the nanofiber coating to be evenly distributed over the filter material and for the filter to have low pressure drop and high efficiency.



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